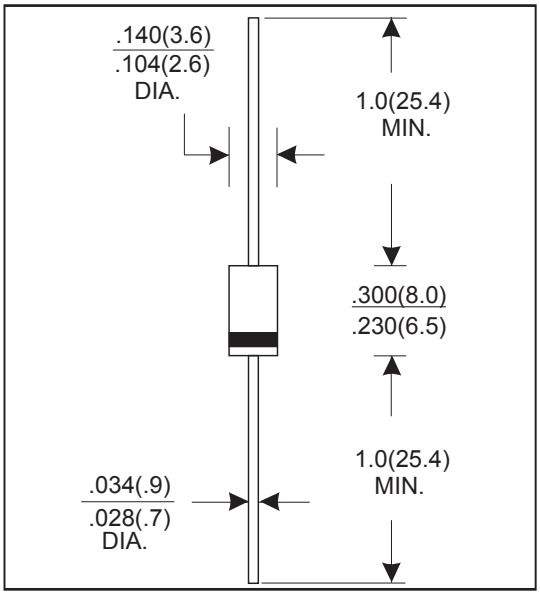
DO-15 PLASTIC SILICON RECTIFIERS

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- High surge current capability
- 1.5A operation at TL=70℃ with no thermal runaway
- Low reverse leakage
- High forward surge current capability
- Glass passivated junction

MECHANICAL DATA

- Case:JEDEC DO-15 molded plastic body
- Polarity:Color band denotes cathode end
- Mounting Position:Any
- Weight:0.014ounce,0.33 gram



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

	Symbols	1N 5391	1N 5392	1N 5393	1N 5394	1N 5395	1N 5396	1N 5397	1N 5398	1N 5399	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum average Forward Rectified Curren 0.375"(9.5mm)lead length at TA=75℃	$I_{(AV)}$	1.5									Amps
Peak Forward Surge Current(8.3ms)half sine-wave cuperimposed on rated load (JEDEC method)	I_{FSM}	50.0									Amps
Maximum Instantaneous Forward Voltage at 1.5 A	VF	1.1									Volts
Maximum Reverse current at rated DC Blocking Voltage T_A=25°C	I_R	5.0									A
Maximum Reverse current at rated DC Blocking Voltage T_A=100°C	I_R	50.0									A
Typical Thermal Resistance(Note 2)	$R_{\theta JA}$	60.0									C/W
Typical Junction Capacitance(Note 1)	C_J	50.0									PF
Operating and Storage Temperature Range	T_J	-65 to +150									C
	T_{STG}										

1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal Resistance from Junction to Ambient.375"(9.5mm) lead length.

RATINGS AND CHARACTERISTIC CURVES

FIG.1: FORWARD CURRENT DERATING CURVE

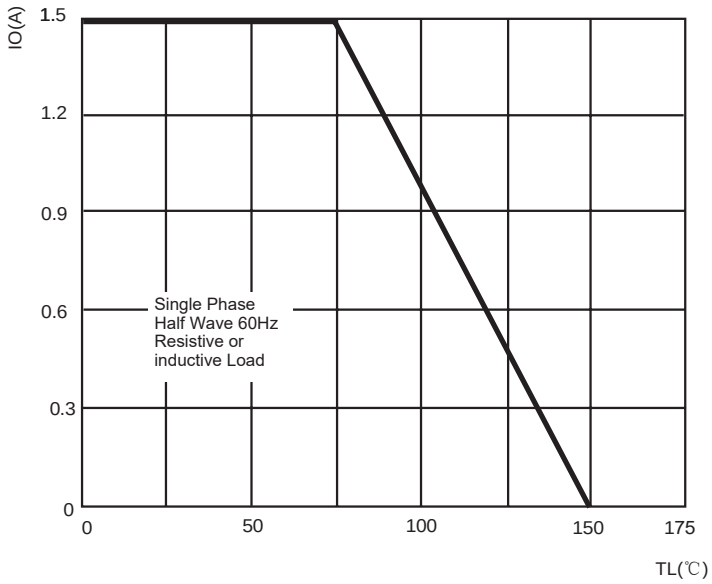


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

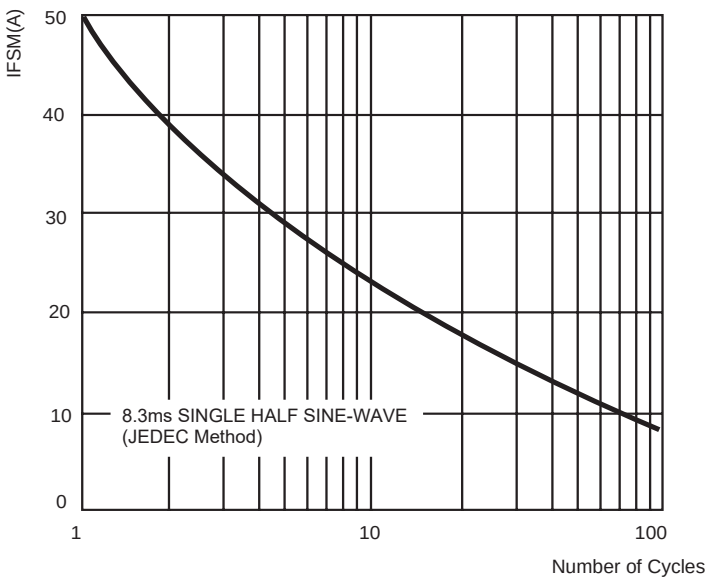


FIG.3: TYPICAL FORWARD CHARACTERISTICS

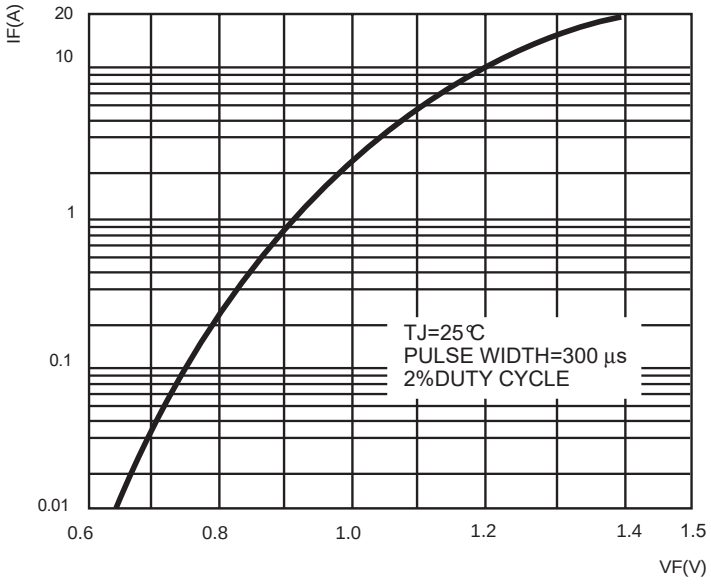


FIG.4：TYPICAL REVERSE CHARACTERISTICS